No. 18.—Vol. 1.

Tarboro', Edgecombe County, (N. C.) Saturday, May 1, 1852.

Whole No. 18.

THE SOUTHERNER. GEO. HOWARD, Jr., Editor & Proprietor.

TERMS - PER ANNUM. If paid within two months, Otherwise,

RATES OF ADVERTISING: One square first insertion, each insertion afterwards, 0 25 Cards, a year, Court Orders and Judicial advertisemewts 25 per cent. higher.

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AGRICULTURAL.



Agriculture is the chief foundation of a nation's power, leached, are annually applied to corn, straw housed, or as much as possible. as it not only furnishes man just as it makes its appearance above I would here remark, that room has with food and clothing, but also ground, and gives it a healthy appear- been provided for storing the straw of with materials for the mechanic ance, and I think prevents worms from 1,500 bushels of grain; that I consider arts, and commerce"

From the American Farmer.

Farming in New York.

ways instructive, to know how our breth- seed to clover and timothy. ren manage their farming operations in other States, and with the view of showing how a notable, pains-taking farmer of the Empire State, manages so as to render his farm not only productive, but then manure heavily and plant to corn, to keep it in an improving state, we following again the above rotation, shall make a few extracts from his Re- which occupies six years, and upon my port to the N. Y. State Agricultural farm gives me eleven acres for hoed Society, in answer to questions pro- crops, eleven acres for barley, oats and pounded to him by that Association. peas; eleven acres for wheat, twenty-two The Report whence we make these ex-lacres for meadow, and eleven acres for tracts, was made by Mr. Elisha M. pasture, annually, upon plough land." B adley, of Ontario county. His "soil is a gravelly loam, in some places merging to sand, and in others tending a lit- ed greensward, ploughed 6 or 8 inches tle to clay; is from 3 to 12 inches deep, deep, thoroughly harrowed, marked in and rests upon a subsoil of red clay. straight lines, 3 feet apart each way. Limestone abounds in the soil." He Five kernels are planted in each hill, best mode of improving the soil:

How to Improve the Soil. the best manner of improving the soil." the ground, at about 6 feet from the Stock Register-a Fruit Register-a DEPTH OF PLOUGHING.

follows: for Corn from 6 to 8 inches; When the corn first makes its appear- ceipts and expenses of the farm for 1850. for Potatoes, Oats, Barley, Peas and ance above ground, a table-spoonful of The receipts were \$2.705.37-the Ex-Wheat, from 8 to 10 inches. Repeated common wood ashes is put upon each penses, \$1.242.50; leaving a balance in experiments have established it as a fact, hill. As soon as the rows are plainly favor of the year's operations, of \$1. that thorough deep tillage ensures the seen, (or when the corn is about 2 inch- 459.87, equal to \$9.73 per acre, after best crops. I have frequently experi- es high,) it is cultivated both ways of paying interest and taxes. mented in shallow and deep plowing for the field, and hoed, care being taken growing barley, oats, and wheat, and that the grass is perfectly cut up, and the result has ever been in favor of the dirt loosened around the stalks of deep plowing."

"I last spring put the subsoil after a spoonful of plaster to each hill." to the depth of 18 inches, with an ex- first hoeing. No further culture." ception of a small part of the field, which CUTTING UP AND CURING THE CORN was not subsoiled, and from the time the grain was four inches high until harvest, a very great difference was observable in the appearance of the grain. Upon the part not subsoiled, it was scarcely a medium growth. Similar results have been obtained with peas and oats."

"Manure is mostly applied to hoed crops, upon which are applied 40 loads (of 30 bushels per load) per acre. Manure is made in [as] compact places as possible, and is either kept in as large heaps as possible, or under ample sheds, which are provided for all my cattle and sheep. Sheds and yards are kept thorcughly littered, and each yard has a bain into which the liquid excrements of the stock, and rain water are conveyed, and there taken up by coarse litter. At pact heaps until rotted."

"My manure consists of the drop- cre." pings of horses, cattle, Sneep, hogs, and and every Joner available substance con- inches apart, -average growth of beets, the quantity of land actually in cultiva- distant points still. vertible into manure. The accumulacions in the privy, together with the and Carrots, 850 bushels per acre." carcases of dead animals, PLASTER, muck, leached ashes, and almost every great amount of straw has been annually the middle of April. Barley and Oats acre, of \$34. 61 61-66. sheep, cattle and horses, and freely used kernel has begun to dry, bound in small strate beyond all cavil, that, when a far-

the amount of manure for the farm, hauled in when well cured, and thrash- an important feature in his system, as a soil has fertilizing matter sufficient to 350 loads of manure annually, and ap- for feeding." ply about 400, the balance being purchased of my neighbors."

thoroughly rotted."

plaster upon my grass lands, hoed crops tory results. Leached ashes have been wheat is sown per acre, the first week in die insolvent.—Editor Am. Farmer. applied as a top-dressing upon meadow, September, cut as soon as out of milk, and plowed in before root crops, to good bound small and set up in shocks to advantage. Common wood ashes, un- dry. Thrashed with machine, and the attacking it."

TILLAGE CROPS.

corn, or some heed crops. 2d. Succeed the following spring rily incurred in stacking all my straw.with barley, oats, and peas.

4th. Cut a crop of grass for hay, and crop of clover for seed.

5th. Seed each season for two years. 6th. Pasture for one season, and

Mode of Cultivating Corn.

"Corn is planted upon highly manursays, in answer to a question as to the care being taken that they are not all thrown together, but separated a few marks:inches apart, and covered with nothing "A Farm Ledger is kept, in which a "Plentifully manuring with well rot- but mellow dirt, one and a half inch debt and credit account is kept with ted manure, thoroughly mixing the ma- deep. As soon as planted, a thread of every field on the farm, with all kinds nure with the soil, by means of the common woolen twine is stretched about of stock, and all experiments instituted plow, cultivator and harrow, is esteemed the field, upon stakes firmly fixed in during the year." He also keeps "a ground, to notify the crows that they Meteorological Journal and Note Book." "The usual depth of plowing, is as have neither part nor lot in the crop. He gives a detailed statement of the recorn. When the first hoeing is complet-EFFICACY OF SUBSOIL PLOUGHING. ed, it is plastered with about a tea-

common plow, which turned a furrow "In about two weeks from the first 10 inches deep, upon corn stubble, hoeing, and before it needs it, it is cultiwhich I was preparing for barley. The vated and hoed agan. In two or three subsoil ploughed a furrow some 8 inches weeks more it is cultivated and hoed the deep, pulverizing the ground thoroughy third time, and plastered as after the

"When it has generally begun to husked in the field, the corn drawn home and cribbed, and the stalks bound, SELECTION OF SEED CORN.

"In selecting seed corn, ears are se-

shelled for seed."

PRODUCT. 70 to 100 bushels per acre."

CULTURE OF ROOT CROPS.

OTHER CROPS.

"The average of our Barley crop is dependent, and honorable. "I use annually about three tons of depth of 14 to 16 inches."

straw and chaff where the grain is cut before [it is] ripe, and well secured, as "1st. Manure heavily and plant to highly nutritious and valuable, and cannot afford to suffer the loss necessa Average wheat, 28 bushels per acre."

cut and cured in September. The analysis when made. same course is pursued the following | These lands are situated in the neighver seed, 3 to 4 bushels."

PRODUCTS OF THE FARM.

MANAGEMENT OF FARM STOCK. Mr. Bradley concludes his statement

"In reference to the care and man-

best investment made in the year."

the ear are removed, and the remainder bear in mind:—that Mr. Bradley only 20. 5 feet and logs 3½ feet. up and put under the sheds, or in com- ceive the same treatment, and usually to \$1459,87; that his farm consists of ued my examination for a long time, chemical changes have taken place. produce from 300 to 350 bushels per a- 150 acres and that, calculating the net until indeed I satisfied myself and the Shell lime is preferred to stone lime "Carrots and Beets are grown upon it amounts to \$9,73 cents per acre. If track is uniform, some of them having it often does, especially as the shell poultry, mixed with refuse straw, leaves, similarly prepared ground, in drills 18 however, we were to estimate it upon seen the same characteristics at more lime contains a small proportion of (blood and sugar varieties,) 400 bushels, tion, the average profit on the cultivated The impression which has been made ble than its other constituents. land would be \$22,11 61-66 per acre. upon my mind respecting this track is The refuse salt procurable from the "Barley, Oats, and Peas are sown on the land, and the \$300 for-his sesvi- when throughly drained it will be pro- es, taken from the barrels when reupon corn stubble, plowed from 8 to 10 ces, which we think in determining the ductive. Of the feasibility of draining packing, is better for our purpose than in the compost heap, and add much to inches deep. Three bushels of seed are actual profit may be very properly done, it I have not the least doubt. The wa- clean salt, as the grease and other mat-

as litter. For the purpose of increasing sheaves, and put in small stooks to dry, mer makes the accumulation of manure trees, trunks of which remain. Now if, water.

from 45 to 50 bushels; of Oats, from 70 Mr. Bradley's farm and improve- lime, iron and magnesia. It is true dressed with the mixture before being "Manure is applied rotted. If found to 90. Peas have not been cultivated ments, cost him \$7,500; if we take that that in the stumps of the bay, which are plowed under, are less likely to render necessary to use unrotted manure, it is until the present season—the yield as his capital in business, the net profits scattered over the ground it is supposed the soil clover-sick than when the mixapplied to a corn crop, in the manner from one acre this season was 41 bush- is rather more than 30 per cent inter- we have the indications of cold acid soil, ture is not used. Many insects are renoticed under the head of tillage. For els, 31 lbs., allowing 60 lbs. per bushel. esta year. A fortunate merchant would yet if so, draining becomes an effectual moved by the use of the mixture. In top-dressing upon meadows it is used When practicable, the ground for Bar- perhaps, on a capital of \$7,500, make remedy. The whole track is cold and preparing a general divisor for manures ley, Oats, and Peas, is subsoiled to the more profit in a year, but from the very bleak now, from the great extent of for farm use, the mixture is almost innature of trade, where one merchant evaporating surface. 2nd. I have ex- dispensable; for while it renders fætid "Wheat is sown upon Barley, Oat, dies rich, ninety five die bankrupt, and amined lands of this character which substances inodorous, and prevents the and wheat. Salt has been occasionally and Pea stubble, ploughed once from 8 leave their families destitute; whereas, have been quite productive for 16 years, formation and liberation of sulphuretted used, and once upon corn, with satisfactor to 10 inches deep. Two bushels of not one prudent farmer in a hundred though there is this difference, the lat- hydrogen and other noxious gases, it

From the Goldsboro' New Era.

"Open Ground Prairie." Newbern, March 28, 1852.

To His Excellency, David S. Reid:

ing your instructions I proceeded to as productive as the Hyde County lands, ble to plants. Carteret County, and entered as soon as would furnish more corn annually than The quantity of the mixture used for possible upon ground Prairie belonging the whole State of New York ever pro- decomposing cheap organic matter may to the State. In order to qualify myself duced. But I do not expect they will be increased to eight bushels per cord, It is sometimes interesting, and al- 3d. Sow to wheat in the fall, and Sowing Clover and Grass Seeds this remarkable variety of soil, I have rim will be I have no doubt, where it is eventually be applied requires additions the better to give an opinion respecting be as productive, though that the outer or more, when the soil to which it will "Small Red Clover and Herds' Grass examined similar soils whenever I could bearing the thickest of the brambles. of any integrants. [Timothy] seed are sown upon the find them, especially where they have The State may very properly take a Composts to which the mixture has wheat is cut, it is pastured but little; not ready to report in full, inasmuch as will sink and the whole mass will beplastered early the following spring I have not been able to make analysis of come compact and more solid, and will, with about 100 lbs. per acre, and cut the specimens of soils I have taken. I when in full bloom, cured in the heap will, however, express my views as far and housed for feeding. The second as they have been formed, and then as growth is allowed to ripen for seed, and soon as possible furnish you with the

> year: an the third year it is pastured, borhood of Beaufort. They lie between and the following spring manured and Ward's Creek and the North River at planted. Average amount of grass cut the north-eastern terminus. I entered per acre, from 11 to 2 tons; average clo- upon them at the head of Ward's Creek. My landing was near what is called Chinquepin ridge, which leads directly entirely disappear. The grass increases its uses, cost, &c. ground is spongy and wet, though less corbonate of soda.

No. 1. Chinquepin ridge. Depth of which is what the farmer requires to agement of Farm Stock, I would add, soil 3½ feet, consisting of vegetable mat- know, and we have therefore adopted that in my opinion, a farmer ought nev- ter mixed with sand and clay, bottom this simple rationale. er to allow an animal to grow poor upon hard, though sandy. 2. Evergreens. The mode usually adopted for making become more easily workable. his hands. That all farm stock should Depth 5 feet soil vegetable, mixed with the salt and lime mixture, is to dissolve be kept thriving; and that when any sand—some logs beneath. 3. 2½ feet, one bushel of salt in water, and with animal deteriorates in value, it does so vegetable much mixed with sand. 4. this to slake three bushels of caustic at the expense of its owner. In selec- 5 feet, vegetable with a trifling quanti- lime; lime is said to be caustic when ting stock for breeding, care is taken ty of sand. 5. Depth, 9 feet and no freshly burned, and before receiving carthat the animal be in the prime of life, bottom, vegetable matter. 6. 7 feet do. bonic acid and moisture from the atmosneither too young nor too old, and by 7. 8 feet, and at the depth of 4½ feet phere, and unless in the caustic state no means unhealthy or diseased. The logs. 8.7½, feet no bottom, some sand will not ensure the desired results when glaze, it is cut up by the roots, and set greatest possible care is also taken in and clay mixed with the vegetable mat-slaked with salt water. The mixture up in stooks containing about 25 hills selecting seed of all kinds for the farm; ter. 10. 71 and no bottom. 11. 61 should be made under a shed, or in a each. As soon as sufficiently dry it is believing as a general rule, that like be- feet of vegetable matter. The prece- building, as the resultant chloride of bonate of soda, nor will the putting of ding soundings carried me fully into the lime and carbonate of soda are soluble "I subscribe for, and read, six agri- open grounds, where the surface is grass in water, and must therefore not be exand if well cured put immediately under cultural papers, which I consider the and moss at its roots. 12. 61 feet, posed to rains or dews. The statement from which we have sand and intermixed. 13. 5 feet do. caustic) when the salt water is added, made the preceeding extracts, is sworn 14 51 feet. 15. 51. 16. 51 feet, sand the whole quantity in solution will not lected, which are perfect in all respects, to by Mr. Bradley, and therefore the at the bottom. 17. 4 feet struck clay. be received; but by turning over the and well kernelled over the small end; facts stated are implicity to be relied 18. 6 feet, bottom. 17. 4 feet, struck heap the next day, it will be found to lime is to be used on land, it will prove the imperfect kernels from each end of upon. And we would ask the reader to clay. 18. 5 feet bottom sandy. 19. do. have absorbed the former dose and will more valuable when slaked with sea

profit upon the whole extent of his farm gentlemen who accompanied me, that the when the latter contains magnesia, as

some places on Ward's Creek.

crops have been sown upon shares on ed with machine, and the straw housed every farmer should, and when he com- bear and mature trees with their leaves bonate of soda, prepared as above reother farms, and the grain drawn home for feeding." Peas are hooked up with posts it judiciously, and applies it with and fruit, it is a fair inference that it commended, is of itself an admirable and thrashed, and the straw consumed a scythe, secured when dry, thrashed a free and liberal hand, farming is will produce corn. In the grass with manure for all soils deficient of chlorine, upon the farm. I manufacture about with a hand flail, and the straw housed among the most profitable of human oc- which it is covered there are silicates of lime or soda; and also for peaty and cupations, as well as most pleasant, in- the alkalies. In the leaves and seeds of other soils containing an excess of orthe fruits we have the phosphate of ganic matter. Green crops, when topter evidently contained more sand, but entirely neutralizes all acidity of muck, it is coarser than that of the open swamp-mud, river deposit, &c . &c grounds; still, I wish to determine the Four bushels of the mixture, when amount of soil, and clay, etc., which this properly and thoroughly prepared and vegetable matter contains before I shall mixed through a cord of any of the feel confident of certain results.

in process of time at least, be fitted for a successful cultivation.

I am, sir, most respectfully. E. EMMONS.

From the Journal of Agriculture.

Salt and Lime Mixture.

Decomposition of Muck, Etc. BY PROF. J. J. MAPES.

Upon this subject Mr. Bradley re- to them towards the North. It termi- nures, &c.," we spoke of "The Salt and nates in a belt of prickly evergreens, Lime Mixture," and many inquiries taken in its pure form from the stables. some eighty rods in breadth. These have since been made by those who evergreens gradually diminish towards have not read the Working Farmer, as the open grounds, though they do not to the mode of preparing this mixture, valuable.

as these diminish, and finally, at about | Common salt is composed of chlorine grounds proper are reached.—This open lime is changed to chloride of lime and

four days prior to my visit there had with it, forming chloride of lime; the places slightly elevated, which were from the atmosphere and becomes car- all the requirements of plants. comparatively dry. Numerous small bonate of soda. This rationale may be pools of water are scattered over the objected to by chemists, as not strictly posed organic matter may be used as a ground, which are supposed to have in accordance with the facts as to the been made by deer breaking up the turf original composition of the salt, &c., but they will all agree as to the result, in part by evaporation in the atmosphere.

vegetable matter, a small quantity of Unless the lime is really hot (purely with slaked lime, nor will salt river wareceive the remainder. Sometimes three cultivated 66 acres of land, and yet his It will be observed from the forego- or four applications are necessary before lime added to muck produce the same clear profits after allowing \$525 interest ing, that the depth of the soil is at least the whole of the dissolved salt will be "The average product of corn is from on the cost of his farm & improvements, 51 feet, consisting mainly of vegetable received by the lime. The mixture \$300 for his own time and services, matter, changed into a black substance should be shovelled over every other day \$335 for hired help, \$50 for wear of intermixed with living roots. The bot- for a fortnight, and it will then be ready "Potatoes are cultivated as corn, team and tools, paying taxes, and all tom is sandy and hard and difficult to for use. The older the mixture may be, the lime, while other portions of the scattering litter and manure is gathered planted the same distance apart, and re- other expenses are deducted, amounted be penetrated by the sound. I contin- however, the more perfectly will the

phosphate of lime, which is more valua-

Again, if we add the \$525, the interest favorable upon the whole. That is, pork, beef, and fish inspection warehousthe fertilizing products of the farm. A sown per acre for the above crops, about it will give us a net average profit, per ter flows from it with quite a ripple at ters attached to it are valuable as maconsumed on the farm, and is fed to are cut when the quantity of milk in the Such results as the preceding, demon-

Uses .- The chloride of lime and car-

above named substances, or even with I feel that it is very desirable that saw dust, spent tan, or any other subthese lands should be reclaimed. They stance requiring to be rendered pulver-Sir: I have the honor to inform your are situated in a very favorable position, ulent, will cause its disintegration, and Excellency that immediately on receiv- easily accessible, and should they prove will render the component parts accessi-

wheat. The latter in the fall, and the been under cultivation. Notwithstan- view of the matter. Draining will es- been added, should always be kept in a former in the spring; the fall after the ding I have pursued this course, I am sentially change the soil—the surface moist (not wet) state to ensure speedy and effective action.

A farmer who has a full supply of organie matter decomposed as above, can render his stable manures many times more valuable by composting them with it: for all the ammonia given off by the fæces during fermentation and decomposition, will be readily absorbed by decomposed muck, and thus ten loads of stable manure, composted as fast as made with ten times its bulk of muck. or other organic matter which has previously been treated with the salt and In our paper on "A Divisor for Ma- lime mixture, will make a manure of but little, if any, less value than that For soils deficient of organic matter, and most soils are so, these composts are in-

The decomposed organic matter has many other uses besides composting the distance of half a mile, the open and soda, and when mixed with caustic with stable manures, for its deoderizing powers are nearly equal to those of charcoal dust, and the absorbing powers for so than I expected, for at Newbern and The lime having a stronger affinity fluids are much greater. Mixed with Beaufort and the surrounding country for chlorine than for soda, combines night soil, it forms poudrette, an admirable and effective manure for all crops been also a heavy rain. There were soda being set free takes carbonic acid in all soils, for the food of man contains

When thoroughly made, the decomdivisor for guano and be retained until used by plants, instead of being wasted Sandy soils, by its use, are rendered retentive of manures while clayey soils are made to yield their tenacity, and to

We have given above all the direc-

tions required, in connection with our article on the Management of Compost Heaps and Importance of a Divisor for Manures, the reader cannot but understand the use and importance of our present recommendation; but no part of the directions must be neglected, for the mere mixing together of lime and salt will not make chloride of lime and carlime and salt into muck or other inorganic matter produce similar results; nor can the lime and salt mixture be made ter alone without further addition of salt make the mixture properly for the purposes we have named, although when water than with spring water. Nor will results as the mixture proposed; for add lime alone to muck it will decompose it, but by a large loss of its more valuable portions, rendered volatile by muck are not prepared to detain it. Nor will the mixing together of manure muck, and the mixture, answer so well as first to decompose the muck or other organic matter by the salt and lime mixture and then, and not until then, to compost it with the stable and other manures for further decomposition. The farmer who has on hand in the fall five hundred loads of prepared muck, and the prospect of fifty or one hundred loads of manure during winter, to compost with it, will be better off in two years, than one who may have in the spring three hundred loads of manure in an open barn-yrrd composed of dung and litter alone.

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